

I claim:

- 5 1. A ceramic with advanced alkali-resistant feather applied in chemical industry, wherein wollastonite, diopside, black tale and magnesite are employed as main raw composition material, clay as bonder for manufacturing.
- 10 2. An alkali-resistant ceramic as claimed in claim 1, wherein the range of mixture ratio of every raw material is wollastonite: 0~30%, black tale: 0~30%, clay: 10~25%, diopside: 0~30%, magnesite: 0~30%.
- 15 3. An alkali-resistant ceramic as claimed in claim 1, wherein it is a ceramic composed of $2\text{MgO}\cdot\text{SiO}_2$, $\text{MgO}\cdot\text{SiO}_2$, $\text{CaO}\cdot\text{SiO}_2$ as main crystal phase, and its main chemical composition includes: SiO_2 : 45.0--55.0%; MgO : 10.0--40.0%; CaO : 0--15%; Al_2O_3 : 3.0--8.0%.
- 20 4. An alkali-resistant ceramic's manufacturing process as claimed in claim 1, wherein the preferred technological parameters are follows:
fineness of pre-milling raw material: <10mm
fineness of milled raw material: the sieved rest <0.5% with 250 mesh
model moister content: 20.0~24.0%
vacuum degree of pug mill: -0.08~0.10Mpa
pre-kiln moister content: <5%
firing temperature range: 1200~1300°C.
- 25 5. An alkali-resistant ceramic as claimed in claim 1, wherein the main machines used in manufacturing include ball mill, dual pump, press filter, wet deferrization device and de-airing pug mill, vacuum extrusion press, shuttle kiln or tunnel kiln.